

AMORPHOUS ALLOY FOR BIOLOGICAL USE**Publication number:** JP7188877**Publication date:** 1995-07-25**Inventor:** MASUMOTO TAKESHI; INOUE AKIHISA; UENO SHUJI;
AMITANI KENJI**Applicant:** MASUMOTO TAKESHI; INOUE AKIHISA; UNITIKA LTD**Classification:****- international:** A61L27/00; A61F2/00; C22C45/00; C22C45/10;
A61L27/00; A61F2/00; C22C45/00; (IPC1-7):
C22C45/10; A61F2/00; A61L27/00; C22C45/00**- European:****Application number:** JP19930338664 19931228**Priority number(s):** JP19930338664 19931228

Report a data error here

Abstract of JP7188877

PURPOSE: To provide amorphous alloy for biological use excellent in the corrosion resistance and the strength, and excellent in the amorphous formability by constituting the alloy from Zr, Ti, Hf, Pd, Pt, Al, Cu, Co and Ni at the prescribed ratio. **CONSTITUTION:** The amorphous alloy for biological use has the composition as indicated by the formula, $Zr_{100-a-b-c}M_aAl_bX_cY_d$ (wherein, M is one or more kinds of Ti and Hf or its mixture, X is one or more kinds of Pt and Pd or its mixture, Y is one or more kinds of Cu, Co and Ni or its mixture, a, b, c, d are the atm.% respectively to satisfy the inequalities of $5 \leq a \leq 55$, $2 \leq b \leq 30$, $2 \leq c \leq 45$, $5 \leq d \leq 40$, $20 \leq a+b+c+d \leq 80$). The amorphous formability is deteriorated when either of the total content of Ti and Hf, that of Pt and Pd, or that of Ti, Hf, Al, Pd, Pt, Cu, Co and Ni is other the range. When the content of Al is below the lower limit, the corrosion resistance and the strength are low, and when the content of Al is above the upper limit, the amorphous formability is deteriorated. The amorphous formability is deteriorated when the total content of Cu, Co and Ni is below the lower limit, while the corrosion resistance is deteriorated when the total content is above the upper limit.

Data supplied from the esp@cenet database - Worldwide